



COUNTY BOROUGH OF BURY.

ANNUAL REPORT
OF THE
Medical Officer of Health
FOR THE YEAR
1922,
BY
G. GRANVILLE BUCKLEY,
M.D., D.P.H.,

MEDICAL OFFICER OF HEALTH, CHIEF TUBERCULOSIS OFFICER.

MEDICAL OFFICER TO THE EDUCATION COMMITTEE.

BURY :
PRINTED AT THE "TIMES" OFFICE, CROSS STREET.
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HEALTH COMMITTEE, 1922.

CHAIRMAN - COUNCILLOR T. B. SMITH.

DEPUTY-CHAIRMAN - COUNCILLOR O. S. HALL.

HIS WORSHIP THE MAYOR (ALDERMAN C. SANDERSON),	COUNCILLOR BATTERSBY,
ALDERMAN ASHWORTH,	„ EVANS,
„ BRADLEY,	„ SIR J. HACKING,
„ COLLINGE,	„ JOHNSON,
„ GREENHALGH,	„ KAY,
„ HARGREAVES,	„ PEARSON,
COUNCILLOR HAROLD	„ REDFORD,
ASHWORTH,	„ SALTER,
„ HENRY	„ J. SMITH,
ASHWORTH,	„ JANE TAYLOR,
	„ WILKINSON.

*Meetings—The Wednesday in each month immediately preceding
the 14th day before the Council, at 10-0 a.m.*

OFFICIALS OF THE HEALTH DEPARTMENT.

*Inspector of Nuisances, District Inspector of Moorside, East, and part of Redvales Wards, Inspector under Shop Hours' Acts, Inspector under Explosives Act, &c. :—*JOHN HAWORTH, Cert. R.S.I., Certified Sanitary Engineer, Certified Inspector of Meat and other Food.

*District Inspector for Church, Elton, and part of Redvales Wards, Inspector under Canal Boat Acts, &c. :—*SAMUEL KAY, Cert. R.S.I.

*Smoke Inspector, Inspector of Infectious Diseases, Common Lodging Houses, &c. :—*HENRY MITCHELL, Cert. R.S.I.

*Abattoirs Superintendent, Inspector of Meat, and of Dairies, Cowsheds, and Milkshops; Inspector of Offensive Trades, &c. :—*ALEXANDER ADAMS, Cert. R.S.I., Certified Inspector of Meat and other Foods. (Resigned July 15th, 1922.)

HARRY WALTON, Cert. R.S.I., Certified Inspector of Meat and other Foods. (Commenced September 28th, 1922.)

* *Health Visitors, Inspectors of Workshops (where Females are employed), Inspectors under Shop Hours' Acts, Inspectors of Midwives, &c. :—*Nurses S. PENNINGTON, Certified Midwife, B. GREENHALGH, Certified Midwife, E. WEBSTER, Certified Midwife, Cert. R.S.I., and AGNES HOLLINGWORTH, Certified Midwife.

* *School Visitors :—*LILIAN H. RISHTON, M.I.H., and MINNIE E. TAYLOR, Certified Midwife.

*Chief Clerk :—*P. WOOD. *Assistant Clerks :—*L. KAY and C. PROPHET.

* *Medical Officer of Health :*

G. GRANVILLE BUCKLEY, M.D., Ch.B., D.P.H.

* *Assistant Medical Officer of Health :*

CLAUDE S. HARWOOD, M.D., B.Sc., D.P.H.

Inspector under Food and Drugs Acts :

H. C. CASS (Markets Inspector).

*Borough Analyst :—*THOMAS J. HUTCHINSON, F.I.C.

*Veterinary Inspector and Surgeon :—*W. E. S. RICHMOND, M.R.C.V.S.

* Salary contribution made under Public Health Acts or by Exchequer Grants.

Public Health Department,

Clough Street,

BURY,

July, 1923.

To the Chairman and Members of the Health Committee.

Lady and Gentlemen,

I have the honour to present to you my Annual Report on the health and sanitary circumstances of your Borough during the year 1922.

In a circular issued by the Ministry of Health it has been suggested that Annual Reports of a full and detailed character (to be known as "Survey" Reports) shall only be issued at intervals of not more than five years. In other years Reports of a more simple character (to be referred to as "Ordinary" Reports) should be issued. The present Report is an "Ordinary" one, and the next "Survey" Report will be issued in 1925.

The birth rate for the year (16.53) is lower than the rate for 1921, which was 18.91 per 1,000 of the population.

The death rate (14.93) shows an increase as compared with the rate (13.30) for 1921. The Phthisis death rate (0.61) is, however, the lowest recorded for the Borough.

I am pleased to report that the Infant Mortality rate still continues to decrease. The rate for the year is 82 per 1,000 births, and this rate also is the lowest recorded for the Borough. The average for the previous ten years was 109 per 1,000 births. The average rate for the 105 great towns of England and Wales for the year 1922 is the same as that for Bury.

I am, Lady and Gentlemen,

Yours obediently,

G. GRANVILLE BUCKLEY,

Medical Officer of Health.

County Borough of Bury.

STATISTICAL SUMMARY, 1922.

Situation—Latitude, 53° 36' N.; Longitude, 2° 18' W.

Population (estimated 1922)	57,400					
,, (census 1921)	56,426					
Number of Inhabited Houses (census 1911)...	13,919					
Marriages (Bury)	492					
Births	<table><tr><td>Males</td><td>477</td></tr><tr><td>Females</td><td>472</td></tr></table> } Total ...	Males	477	Females	472	949
Males	477					
Females	472					
,, (Illegitimate)	<table><tr><td>Males</td><td>26</td></tr><tr><td>Females</td><td>25</td></tr></table> } Total ...	Males	26	Females	25	51
Males	26					
Females	25					
Annual Rate of Births per 1,000 of the Population...	16.53					
Deaths	<table><tr><td>Males</td><td>433</td></tr><tr><td>Females</td><td>424</td></tr></table> } Total ...	Males	433	Females	424	857
Males	433					
Females	424					
Annual Rate of Mortality per 1,000 of the population	14.93					
Excess of Registered Births over Deaths	92					
Infant Mortality	82 per 1,000 Births.					
Area (acres)	5,925					
Rateable value	£397,531					
Sum represented by a penny rate	£1,360					

LEGAL SUMMARY.

Statutes in force in the Borough (other than Public General Acts) :—

LOCAL ACT.

Bury Corporation Act, 1909.

ACTS CONFIRMING PROVISIONAL ORDERS.

Local Government Board's Provisional Orders Confirmation (No. 17) Act, 1903. (An Act to confirm certain Provisional Orders relating to Bury and the Bury and District Joint Hospital Board.)

ACTS CONFIRMING PROVISIONAL ORDERS (Continued).

Local Government Board's Provisional Orders Confirmation (No. 5) Act, 1911, which confirmed a Provisional Order made by the Local Government Board for the inclusion of Warth Fold within the Borough as from the 9th November, 1911.

Local Government Board's Provisional Orders Confirmation (No. 10) Act, 1914, which confirmed an Order authorising the carrying out of certain street improvements.

Local Government Board's Provisional Orders Confirmation (No. 15) Act, 1912, confirming the Bury (Extension) Financial Adjustments Order, 1912.

Local Government Board's Provisional Orders Confirmation (No. 1) Act, 1913, repealing Section 212 of the Bury Corporation Act, 1909, and the tenth Schedule, and abolishing the special rating districts, or added area differential rating.

Local Government Board's Provisional Orders Confirmation (No. 13) Act, 1914, repealing Section 141 of the Bury Corporation Act, 1909, which prohibited streets being laid out for building purposes exceeding 100 yards in length without an intersecting street every 100 yards.

Tramways Orders Confirmation Act, 1915, authorising the extension of the Bury Tramways to the New Inn, Walmersley, and at Jericho.

ACTS ADOPTED.

Public Health Acts Amendment Act, 1890. (March 5th, 1891; came into operation May 1st, 1891.)

Infectious Diseases (Prevention) Act, 1890. (August 2nd, 1900; came into operation October 1st, 1901.)

Housing of the Working Classes Act, 1890—Part III. (June 3rd, 1909.)

ACTS ADOPTED (Continued).

Notification of Births Act, 1907. (March 5th, 1908.)

Public Health Acts Amendment Act, 1907. Orders made, declaring certain Parts and Sections thereof to be in force in the Borough, by the Local Government Board on November 8th, 1909 (came into operation 1st January, 1910), and by the Secretary of State on October 13th, 1909.

ACTS CONSTITUTING CERTAIN JOINT AUTHORITIES—

- (i.) as to prevention of pollution of rivers, namely: Local Government Board's Provisional Orders Confirmation (No. 10) Act, 1891. (Confirming a Provisional Order constituting a Joint Committee, under section 14 of the Local Government Act, 1888, to enforce the provisions of the Rivers Pollution Prevention Act, 1876, in relation to parts of the Rivers Irwell and Mersey);
- (ii.) as to water supply, namely:—Bury and District Water (Transfer) Act, 1900 (constituting the Bury and District Joint Water Board).

Causes of, and Ages at Death during the Year 1922.

Causes of Death.	Nett Deaths at the subjoined Ages of Residents, whether occurring within or without the District.									Total Deaths whether of Residents or Non-residents in Institutions in the District.
	All ages.	Under 1 year.	1 and under 2.	2 and under 5.	5 and under 15.	15 and under 25.	25 and under 45.	45 and under 65.	65 and upwards.	
All Causes { Certified	831	77	21	16	23	21	121	245	307	234
Uncertified ..	26	1	1	..	1	1	1	8	13	
Enteric Fever
Smallpox.....
Measles	8	1	1	1	1
Scarlet Fever.....	4	4	2
Whooping Cough	6	5	..	1
Diphtheria and Croup....	3	..	1	1	1	3
Influenza	52	..	1	2	3	4	13	16	13	2
Erysipelas	2	1	..	1	1
Phthisis (Pulmonary Tuberculosis).....	35	1	1	7	15	9	2	8
Tuberculous Meningitis ..	3	1	1	1	..	3
Other Tuberculous Diseases	12	1	2	1	3	4	1	1
Cancer, Malignant Disease	69	10	38	21	11
Rheumatic Fever.....
Heart Diseases	140	2	..	2	..	3	16	57	60	61
Bronchitis	120	6	8	1	8	34	68	29
Pneumonia (all forms) ..	70	10	11	4	3	2	13	18	9	6
Other Diseases of Respiratory Organs	10	1	2	4	3	4
Diarrhoea and Enteritis ..	7	4	1	2	..	2
Appendicitis and Typhlitis	3	1	1	1	..	3
Cirrhosis of Liver.....	6	2	2	2	2
Alcoholism.....
Nephritis and Bright's Disease	17	1	..	3	7	6	4
Puerperal Fever	2	2	1
Other accidents & Diseases of Pregnancy and Parturition	4	4	1
Congenital Debility and Malformation, including Premature Birth	36	36	3
Violent Deaths, excluding Suicides	9	1	..	1	4	1	2	9
Suicides	13	7	6	..
Other Defined Diseases ..	167	8	2	..	8	4	25	49	71	62
Diseases Ill-defined or Unknown	64	2	2	2	3	55	15
	857	78	22	16	24	22	122	253	320	234

Vital Statistics of Whole District during 1922 and Previous Years.

YEAR	Population estimated to middle of each Year.	BIRTHS.		TOTAL DEATHS REGISTERED IN THE DISTRICT.		Transfer- able Deaths of Non- residents registered in the District.	Transfer- able Deaths of Residents not registered in the District.	NETT DEATHS BELONGING TO THE DISTRICT.					
		Nett.		Number	At all Ages.								
		Number.	Rate per 1000 nett Births.										
								Number.	Rate. per 1000 nett Births.	Number	Rate.		
1917	51851	776	13.43	939	18.11					162	52
1918	51851	728	12.73	1096	21.13	164	44	80	110	976	19.13
1919	54248	738	13.06	1014	18.69	146	48	68	92	916	16.88
1920	56410	1118	19.66	912	16.16	136	45	102	91	821	14.55
1921	57600	1089	18.91	841	14.60	124	49	93	85	766	13.30
1922	57400	949	16.53	946	16.48	143	54	78	82	857	14.93

Area of District in acres (land and inland water)	{	Total population at all ages	{	At Census of 1911.
	5925.		Total families or separate occupiers	...13919		
		Average number of persons per house	...4.24		

INQUESTS DURING THE YEAR.

During the year the causes of death of 56 Bury residents were investigated by the District Coroner (Mr. S. F. Butcher). In 43 instances it was found advisable to hold an inquest, and of this number 33 related to the bodies of males and 10 to the bodies of females. In 26 cases a public enquiry was dispensed with.

UNCERTIFIED DEATHS.

The number of uncertified deaths (i.e., deaths which had not been certified by a medical man, or cases in which the Coroner considered an inquest unnecessary) was 26, 13 being of males and 13 of females.

INFANT MORTALITY.

Number of births during the year	949
Number of deaths of children under one year of age...	78
Infant Mortality Rate, per 1,000 births	82

The following table shows the number of deaths of infants per 1,000 births in Bury during the past eleven years :—

1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	Average 10 years	1922
112	141	125	115	133	93	110	92	91	85	109	82

Infant Mortality for the whole of England and

Wales (1922)	77
For the 105 Great Towns	82
For the 155 Smaller Towns	75

Influence of Feeding on Infant Mortality.—During the year the following information has been obtained as to the method of feeding of 889 of the 897 infants notified. Of these :

751	were breast-fed, amongst which were 18 deaths, i.e.,	2.40%
85	„ bottle-fed „ „	27.01%
41	„ breast and bottle-fed „	17.07%
12	„ spoon-fed „	91.67%
8	died within 24 hours of birth, or no particulars could be obtained.	

Of the 78 deaths which have been recorded of children under one year of age, the following is an analysis of the nature of feeding :—

20, or 25.64 per cent., were bottle-fed.

29, or 37.18 per cent., were fed naturally.

5, or 6.41 per cent., were partly breast and partly bottle fed.

11, or 14.10 per cent., were spoon-fed.

13, or 16.67 per cent., died almost immediately after birth.

District Mortality.

			Infant Deaths.		Births.		Deaths per 1000 Births
Bury North	{	Moorside Ward	16	...	247	...	65
		East Ward	17	...	195	...	87
Bury South	{	Church Ward	17	...	144	...	118
		Redvales Ward	10	...	139	...	72
Elton Ward		18	...	224	...	80
Whole Borough... ..			78		949		82

Number of women dying in, or in consequence of, child-birth :—From Sepsis one, from other causes three.

NOTIFICATION OF BIRTHS ACT, 1907.

The above Act was adopted at a meeting of the Town Council held on February 8th, 1908, and the consent of the Local Government Board having been obtained, came into operation on April 8th, 1908. The Act was, however, extended to all districts on September 1st, 1915.

Under the Notification of Births Act of 1917, 897 births were notified, 709 being notified by midwives, 175 by medical practitioners, and 13 by parents or other persons. Of the total number of births notified, 58 were returned as being "still-born," of which 34 were notified by midwives and 24 by medical practitioners.

MIDWIVES' ACT.

The number of midwives on the register at the end of the year was 18, being the same number as at the end of the year 1921, eleven of whom were trained and certified by examination. Speaking generally, they have complied with the rules and regulations according to the Midwives' Act.

MATERNITY AND CHILD WELFARE.

MOTHERS' WELCOME.

In November, 1916, a Committee of voluntary workers, including representatives of the Bury Co-operative Women's Guild, opened the "Mothers' Welcome" at 12, John Street. The building contains consulting room, play room for children, tea room for mothers, weighing room, lavatories, &c. The Welcome is open every Monday and Thursday afternoon.

In April, 1919, the Centre was taken over by the Corporation, but the voluntary Committee also continued to assist with the work.

At the end of 1922 there were 401 children on the register and 2,433 attendances had been made. There were also 37 expectant mothers on the register, with a total attendance of 143.

In April, 1920, arrangements were made for a Centre to be opened at Wood Street School, Elton. The Centre is open every Wednesday afternoon, and it has met with great success. At the end of 1922 there were 281 children on the register, and 936 attendances had been made. There were also nine expectant mothers on the register, with a total attendance of 34.

Full records are kept of each child, and when considered necessary the child is examined by the Medical Officer in attendance. The Health Visitors have attended on 236 occasions. No treatment is carried out at the Centres, but where the child requires medical attention the mother is directed to consult her own medical man.

MILK (Mothers and Children) ORDER, 1919.

During the year 132 applications were received for free milk under the above Order, of which 116 were granted and 16 refused.

COMPLICATED CASES OF LABOUR.

In June, 1920, arrangements were made with the Board of Management of the Bury Infirmary for the treatment of complicated cases of Labour. During 1922 twelve patients were treated at the institution.

Table showing the number of cases of Infectious Disease notified from 1903 to 1922.

DISEASE.	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922
Smallpox	59	25	33	1	30	1
Scarlet Fever	156	261	197	90	40	98	389	564	220	139	296	250	156	112	85	50	27	76	138	185
Diphtheria and Membran'us Croup	107	73	55	35	48	52	59	44	44	13	66	59	51	48	165	114	115	74	49	46
Enteric Fever....	37	22	33	33	18	15	9	18	25	6	7	8	8	5	7	5	7	1	1	1
Continued Fever..	2	1	3	3	1	2	1
Puerperal Fever..	2	11	4	11	14	9	5	4	6	6	6	4	3	6	7	7
Measles	135	1082	668	235
Erysipelas	20	10	46	42	35	26	38	40	32	41	28	36	48	29	18	16	28	25	20	22
†Chickenpox	79	223	103	138	97	190	237	181
Poliomyelitis	2	..	1	1
Encephalitis Lethargica	1	2	..
Ophthalmia Neonatorum	1	4	15	15	22	21	6	11	12	14	17
†Pneumonia	149	53	45	160
†Malaria	23	10	2	..
†Dysentery	2
TOTALS.	383	403	450	215	156	202	500	670	357	208	408	373	281	577	1485	999	697	449	515	619

† Made notifiable on Mar. 29th, 1916.

† Made notifiable Mar. 1st, 1919.

Cases of Infectious Disease notified during the Year 1922.

Notifiable Disease.	Cases notified in whole District.								Total Cases notified in each locality.		No. of Cases Removed to Hospital from each locality		Total Cases Removed to Hospital.
	At all Ages	At Ages—Years.							Registration Sub-District.				
		Under 1	1 to 5	5 to 15	15 to 25	25 to 45	45 to 65	65 and up-wards.	Bury.	Elton.	Bury.	Elton.	
Smallpox
Cholera
Diphtheria (including Membranous Croup)	46	2	14	22	7	1	29	17	28	17	45
Erysipelas.....	22	3	7	7	5	..	19	3	..	1	1
Scarlet Fever	185	..	29	129	17	10	142	43	121	37	158
Typhus Fever
Enteric Fever.....	1	1	1	..	1	..	1
Relapsing Fever
Encephalitis Letharg.
Poliomyelitis
Ophthalmia													
Neonatorum..	17	17	13	4
Chicken-pox	181	9	63	108	1	114	67
Pneumonia	160	..	21	33	23	42	30	11	133	27
Malaria.....
Dysentery
Puerperal Fever	7	1	6	4	3	2	1	3
TOTALS....	619	28	127	292	52	67	37	16	455	164	152	56	208

Number of Cases of Infectious Disease notified in each Month of the Year.

	Scarlet Fever.	Diphtheria & Membran- ous Croup.	Enteric Fever.	Puerperal Fever.	Erysip- elas.	Polio- myeli- tis.	Chicken- pox.	Ophthal- mia Neo- natorum.	Encephal- itis L'th'rgica	Pneu- monia	Malari-
January	27	2	...	1	2	...	4	1	...	21	..
February....	21	2	2	1	...	18	..
March	20	3	...	1	2	...	10	3	...	18	..
April	20	7	...	1	3	...	7	3	...	11	..
May	22	5	3	...	16	1	...	15	..
June	16	3	1	2	28	1	...	6	..
July	6	3	...	1	1	...	19	12	..
August	8	3	2	...	12	2	...	5	..
September	7	4	2	...	3	6	..
October	9	3	2	...	12	5	...	9	..
November	5	8	...	1	3	...	28	20	..
December	24	3	2	...	40	19	..
TOTALS...	185	46	1	7	22	...	181	17	...	160	..

WARD DISTRIBUTION OF INFECTIOUS DISEASES, 1922.

	Scarlet Fever.	Diphtheria & Membran- ous Croup.	Ent- eric Fever.	Puer- peral Fever.	Erys- pelas.	Oph- thal. Neon- 'tor'm.	Polio- myeli- tis.	Chick- enpox.	Pneu- monia	Mal- aria.	Encep- halitis Leth- argica
Moorside	66	17	...	1	3	1	...	44	45
East.....	26	7	...	1	7	5	...	12	22
Church	19	1	...	1	2	5	...	43	43
Redvales	31	4	1	1	7	2	...	15	23
Elton	43	17	...	3	3	4	...	67	27
TOTALS.....	185	46	1	7	22	17	...	181	160

CASES REMOVED TO THE FLORENCE NIGHTINGALE HOSPITAL FROM
THE VARIOUS WARDS.

	Scarlet Fever.	Diphtheria & Membran- ous Croup.	Enteric Fever.	Continued Fever.	Puerperal Fever.	Poliomy- elitis.	Erysip- elas.	Measles.
Moorside ...	53	17	1
East	21	7
Church	19	1	1
Redvales	28	3	1	1	...
Elton	37	17	1
TOTALS.....	158	45	1	...	3	...	1	...

VENEREAL DISEASES.

On February 3rd, 1920, a Venereal Diseases Clinic was opened at the Tuberculosis Dispensary, The Wylde, Bury. The hours of attendance are :—

Tuesdays : 6-30 p.m. to 8-30 p.m. for females.

Fridays : 6-30 p.m. to 8-30 p.m. for males.

The work is carried out by a medical man with special experience in the work, and free treatment is available for all, whether resident in the Borough or not.

The following tables give full particulars of the work carried out at the clinic during the year 1922 :—

VENEREAL DISEASES.

RETURN relating to all persons who were treated at the Treatment Cent
at Bury during the year ended the 31st December, 1922.

[illegible]

RETURN relating to VENEREAL DISEASES—Continued.

9. Examinations of Pathological material:—	For detection of			For Wassermann Reaction.
	Spirochetes.	Gonococci.	Other Organisms.	
(a) Specimens which were examined at, and by the Medical Officer of, the Treatment Centre.	..	89
(b) Specimens from persons attending at the Treatment Centre which were sent for examination to an approved laboratory.....	396

STATEMENT showing the services rendered at the Treatment Centre during the year, classified according to the areas in which the patients resided.

Name of County or County Borough (or Country in the case of persons residing elsewhere than in England and Wales) to be inserted in these headings.	Bury.	Lanc'shire C.C.	Colne.	Rochdale.	Cheshire.	Manch'str		Total.
A. Number of persons from each area dealt with during the year at or in connection with the out-patient Clinic for the first time and found to be suffering from :—								
Syphilis	47	39	..	1	2	89
Soft Chancre.....	1	1	2
Gonorrhœa	30	21	51
Balanitis	1	1
Conditions other than venereal.....	18	2	20
Total.....	97	63	..	1	2	163
B. Total number of attendances at the out-patient Clinic of all patients residing in each area	1376	1359	1	41	25	4	..	2806
C. Aggregate number of "In-patient days" of all patients residing in each area.....
D. Number of doses of Salvarsan substitutes given in the :—								
{ 1. Out-patient Clinic								
{ 2. In-patient Dept. to								
{ patients residing in								
{ each area								
	400	447	1	21	16	885
E. Give the names of Salvarsan substitutes used in the treatment of syphilis and the usual initial and final doses	Novarsenobillon and Sulfarsenol.							
F. State the amount and kind of treatment usually administered to a case of Syphilis of each of the types usually dealt with at the Treatment Centre.	N.A.B. 0.45, 0.6, 0.6, 0.6, rest 0.6. 0.6, 0.6, 0.6. Sulfarsenol 0.3, 0.6, 0.6, 0.6, rest 0.6, 0.6, 0.6, 0.6. Children are given Sulfarsenol intramuscularly. In some cases adults may begin with 0. N.A.B., or may end with 0.75 or 0. N.A.B. As in Memo. V ²¹ , but culture and complement fixation test is used.							
G. State the nature of tests applied in deciding as to discharge of patients referred to in Item 5 on previous page								

OPHTHALMIA NEONATORUM.

Seventeen cases of this disease were notified during the year, all being treated in their own homes. In fifteen instances the vision was unimpaired, and there were two deaths.

TUBERCULOUS DISEASES.

Pulmonary Tuberculosis caused 35 deaths, of which 33 had been notified by doctors. The rate of mortality was 0.61 per 1,000.

Fifteen deaths occurred from Non-Pulmonary Tuberculosis, thirteen of which had been notified.

Institutional treatment is given to cases of Tuberculosis at the Tuberculosis Dispensary, at the Bury and District Joint Hospital Board's Institution, the Aitken Sanatorium at Holcombe, near Ramsbottom, the Bury Infirmary, the Manchester and Salford Hospital for Skin Diseases, and the Shropshire Orthopædic Hospital, Oswestry.

The Aitken Sanatorium was opened in August, 1910, and the Bury Tuberculosis Dispensary on October 15th, 1914.

THE TUBERCULOSIS DISPENSARY.

The Tuberculosis Dispensary is situated in the Wylde, Bury, and was formerly the Prince's Club. It is situated in the centre of the town quite close to the main tram routes and the railway stations. The building was kindly presented to the town by the Earl of Derby.

The two wards contain eight beds each, half of which number are, by arrangement with the Lancashire County Council, for the sole use of patients from outside the Borough.

The Out-Patient Department is used by the Lancashire County Council on certain half-days per week, when one of their Tuberculosis Officers is in attendance.

NON-PULMONARY TUBERCULOSIS.

An agreement was entered into between the Bury Corporation and the Bury Infirmary in July, 1920, under which cases of Non-Pulmonary Tuberculosis occurring in the Borough are treated at that Institution. Cases have also been treated at the Shropshire Orthopædic Hospital.

TUBERCULOSIS OF THE SKIN.

Arrangements were made, at the commencement of the year 1921, with the Manchester and Salford Hospital for Skin Diseases, whereby patients from the Borough suffering from Tuberculosis of the Skin could attend and receive appropriate treatment. Under these arrangements thirteen patients have been treated during the year.

The following table gives the number of patients treated and the number of patient days in the various institutions :—

	No. of Patients	No. of Days
Dispensary... ..	23	1464
Aitken Sanatorium	53	6681
Bury Infirmary	18	1561
Shropshire Orthopædic Hospital... ..	4	813

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.

Summary of Notifications during the period from the 1st January, 1922, to 30th December, 1922.

AGE PERIODS.	NUMBER OF NOTIFICATIONS ON FORM A.												NUMBER OF NOTIFICATIONS ON FORM B.				No. OF NOTIFICATIONS ON FORM C.		
	PRIMARY NOTIFICATIONS.												PRIMARY NOTIFICATIONS.				Total notifications (i.e., including cases previously notified by other Doctors).	Poor Law Institutions.	Sanatoria
	Total notifications (i.e., including cases previously notified by other Doctors).												Total notifications (i.e., including cases previously notified by other Doctors).						
	0 to 1	1 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 and upwards.	Total.	Under 5	5 to 10	10 to 15	Total.			
Pulmonary Males...	—	—	1	—	2	1	4	2	6	3	1	20	—	—	—	—	2	22 (6)	
“ Females	—	—	—	—	4	1	7	6	4	—	1	23	—	—	1	1	3	13 (12)	
Non-pulmonary Males...	1	3	2	—	4	3	1	4	3	—	—	21	—	—	1	1	—	—	
“ Females	1	2	2	3	1	3	1	—	2	—	—	15	—	1	—	1	1	—	

SMALLPOX.

No case of Smallpox occurred during the year; the last case notified in the Borough was on March 15th, 1916.

SMALLPOX AND VACCINATION.

The following table gives particulars of the state, as regards vaccination, of children born in each of the years 1916 to 1922 :—

COUNTY BOROUGH OF BURY.

	Totals 1916	Totals 1917	Totals 1918	Totals 1919	Totals 1920	Totals 1921	Totals 1922
Births	954	825	748	786	1165	1148	982
Vaccinated	330	249	238	255	298	239	209
Insusceptible of Vaccination ...	2	2	3	0	1	1	2
Conscientious Objection Certificates	449	399	398	388	652	674	604
Dead, Unvaccinated...	91	53	45	64	92	90	76
Postponed by Medical Certificate	15	6	12	13	23	21	19
Removal to districts known.....	7	6	0	4	7	40	10
Removal to districts unknown.....	19	8	6	3	10	28	11
Unaccounted for	41	102	46	59	82	55	51

Table showing percentage of Vaccination, and also comparison with the years 1916, 1917, 1918, 1919, 1920, 1921 :—

	Year ending December 31st,						
	1916	1917	1918	1919	1920	1921	1922
Number of Births ...	954...	825...	748...	786...	1165...	1148...	982
Vaccinated	34.59...	30.18...	31.82...	32.44...	25.58...	20.82...	21.28
Con. objection Certs.	47.06...	48.36...	53.21...	49.37...	55.97...	58.71...	61.51
Unaccounted for ...	4.29...	12.36...	6.15...	7.51...	7.04...	4.01...	5.19

From the above it will be seen that the percentage of children vaccinated during each of the seven years to 1922 shows, with

slight fluctuations, a gradual decrease until, at the present time, practically only one child out of every five born is vaccinated. It is hardly necessary to point out the seriousness of such a state of affairs. Should Smallpox be introduced into the town, as is by no means unlikely, it will have every opportunity of assuming epidemic proportions—especially if the case should be of the mild type which is now so frequent. Such a case may easily go unrecognised by the public until a large number of persons have been infected. The advisability of vaccination and re-vaccination cannot be too strongly urged upon the public.

BACTERIOLOGICAL EXAMINATIONS.

The following are the particulars of the specimens examined during the year at the Public Health Laboratory, Manchester :—

	Positive	Negative	Doubtful	Total
Diphtheria	1	22	0	23
Typhoid Fever	1	0	1	2
Sputum for Tuberculosis	22	58	0	80

ANTITOXIN.

Towards the end of the year 1910 sanction was obtained from the Council to supply the medical practitioners of the district with Antitoxin free, for patients suffering from Diphtheria within the Borough.

HOSPITAL ACCOMMODATION AND AMBULANCE FACILITIES.

Cases of infectious disease, including Smallpox, requiring removal are sent to the Hospitals under the control of the Bury and District Joint Hospital Board, viz. :—Ainsworth Hospital, near Bolton, for Smallpox, and the Florence Nightingale Hospital, Bury, for other infectious diseases. General Hospitals in the district are the Bury Infirmary and the Union Hospital, Bury.

The Bury and District Joint Hospital own two motor ambulances, which are used for the removal of cases of Infectious Disease, and patients suffering from Tuberculosis. The Bury Corporation own one motor ambulance, which is used for the removal of accident cases and cases of serious illness requiring hospital treatment.

NURSING FACILITIES.

The Bury Branch of Queen Victoria's Jubilee Institute for Nurses provides Nurses for the sick poor in their own homes. The Corporation have also made arrangements with the Institute for the nursing of cases of Measles and Ophthalmia Neonatorum where necessary.

FACTORIES, WORKSHOPS, LAUNDRIES, WORKPLACES,
 AND HOMEWORK.

1.—INSPECTION

Including inspections made by Sanitary Inspectors or Inspectors or Nuisances.

Premises.	Number of		
	Inspections.	Written Notices.	Prosecutions.
Factories (including Factory Laundries).....	157	13	—
Workshops (including Workshop Laundries)	187	8	—
Workplaces (other than Outwork's' Premises).....	45	11	—
Total.....	389	32	—

2.—DEFECTS FOUND.

Particulars.	Number of Defects.			Number of Prosecutions.
	Found.	Remedied.	Referred to H.M. Inspector	
<i>Nuisances under the Public Health Acts :—</i>				
Want of Cleanliness	7	7
Want of Ventilation
Overcrowding
Want of drainage of floors	2	2
Other Nuisances.....	81	81
Sanitary accommodation {	Insufficient	3
	Unsuitable or defective	15
	Not separate for sexes
<i>Offences under the Factory and Workshop Act :—</i>				
Illegal occupation of underground bakehouse (S. 101)
Breach of special sanitary requirements for bakehouses (SS. 97 to 100)
Other offences (excluding offences relating to Outwork, which are included in part 3 of this report).....
Total	108	108

OTHER MATTERS.

Class.		Number.	
Matters notified to H.M. Inspectors of Factories :—			
Failure to affix Abstract of the Factory & Workshop Act (S.133)		—	
Action taken in matters referred by H.M. Inspectors as remediable under the Public Health Acts, but not under the Factory and Workshop Act (S. 5).	Notified by H.M. Inspector	3	
	Reports (of action taken) sent to H.M. Inspectors.	3	
Other		—	
Underground Bakehouses (S. 101) :—			
Certificates granted during the year		—	
In use at the end of the year		2	
Homework :—		Number of	
List of Outworkers (S. 107) :—		Lists.	Outworkers.
Lists received :—Twice in the year		—	—
Once in the year		2	19
Addresses of outworkers	forwarded to other Authorities.	—	—
	received from other Authorities	—	—
Inspection of Outworkers' Premises		19	
Homework in unwholesome or infected premises :—		Wearing Apparel.	Other.
Notices prohibiting homework in unwholesome premises (S. 108)		—	—
Cases of infectious disease notified in homeworkers' premises		—	—
Orders prohibiting homework in infected premises (S. 110)		—	—
Workshops on the Register (S. 131) at the end of the year 1921			
Important classes of work-shops, such as workshop bakehouses, may be enumerated here.	Bakehouses	110	
	Blacksmiths... ..	13	
	Brush Manufacturers	4	
	Boot and Shoe Makers and Repairers	40	
	Cloggers	24	
	Cabinet Makers and Joiners	16	
	Dress and Mantle Makers	20	
	Wheelwrights	7	
	Workplaces	25	
	Marine Store Dealers & Metal Brokers	9	
	Painters and Decorators	18	
	Plumbers	17	
	Saddlers	8	
	Tailors	34	
	Milliners	40	
Other Trades		52	
Total number of workshops on register		437	

COMMON LODGING HOUSES.

The number of Common Lodging Houses in the Borough is 14, which provide 275 beds.

HOUSES LET-IN-LODGINGS.

(“Furnished Rooms.”)

The number of houses now on the register is 31. 149 rooms of these houses are let off as furnished apartments, giving accommodation for 343 adults and 61 children.

PETROLEUM ACTS.

Under these Acts two licences have been granted for the storage of benzine and benzoline, fifty-seven for petrol, and fifteen for calcium carbide. In all cases the petrol is kept in metal vessels and drums in properly constructed stores. The stores for petrol are 13 underground tanks, fitted with pumps, 11 for storage in barrels, and 32 for storage in two gallon tins, one in tanks above ground (for benzine). The calcium carbide is kept in metal vessels with airtight lids, in dry places, generally in the shops and warehouses. In six cases the carbide is used for the generation of acetylene gas for welding and nine for lighting purposes.

EXPLOSIVES ACTS.

Fifty-six persons were registered for the sale of explosives during the year as required by these Acts, being for the sale of fireworks or mixed explosives, &c. The sale of fireworks only lasts for about two or three weeks, i.e., the last week in October and the first and second weeks in November. During this period the shops were visited, and the fireworks were found to be stored with few exceptions in accordance with the regulations

made, dummy fireworks being exposed in the windows. Gunpowder is sold by the ironmongers and locksmiths, and is kept in safes in small quantities.

CANAL BOAT ACTS, 1877 and 1884.

The work of the inspection of the canal boats is carried out by Inspector Kay. No boats registered under the above Acts visited the Wharf at Bury Bridge during the year. Twelve visits were paid to the Wharf.

SMOKE OBSERVATIONS.

349 smoke observations of the mill chimneys situated within the Borough have been taken, each being of 30 minutes' duration. The aggregate amount of black smoke evolved was 328 minutes, which is equal to an average of 0.93 minutes for each observation. The time limit (2 minutes in 30) permitted by your Council has been exceeded in 14 instances by 12 firms, this being equal to 4.09 per cent. of the total observations taken, the aggregate amount of black smoke emitted by these firms being 106 minutes, which is equal to an average of 7 minutes and 35 seconds for each observation. The average amount of black smoke emitted by the chimneys under the limit was equal to 0.69 minutes.

After the observation has been made the usual course has been taken, viz., to send a notification of the amount of black smoke emitted to the firm, and in cases where the limit has been exceeded the works have been visited in order to see if there were any defects in the boilers, &c., which may have caused the nuisance, this course being much appreciated by the owners, as it enables them to trace or check the cause of the nuisance.

The following table gives the results of the fourteen observations exceeding the limit :—

	Black mins.		Moderate mins.		None mins.	
*A.A. & Sons Ltd.	6	...	12	...	12	
*P.M. Co.	5	...	16½	...	8½	
*B. & J.	3	...	13	...	14	
*C.W.S.	5	...	8½	...	16½	
*A.W.	5	...	7½	...	17½	
*J. & A.E.	28½	...	1½	...	0	
*B.C.M. Co.	13	...	15	...	2	
*C.L. Co.	7	...	7	...	16	
*B.C.E.D.	6	...	24	...	0	
*B.C.B.	5	...	25	...	0	
*P.M. Co.	5	...	13	...	12	
*B.P. Co.	7½	...	17½	...	5	
†P.M. Co.	6	...	16	...	8	Dismissed.
†P.M. Co.	4	...	17½	...	8½	Fined £5.

* Legal notice served. † Prosecution.

DISINFECTION.

The following is a summary of the disinfection carried out during the year in the reported cases of Infectious Diseases :—

250 rooms in 241 houses were disinfected with the fumes of either sulphur or formaldehyde, and the walls of 520 rooms in 250 houses sprayed with a solution of either formalin or carbolic acid.

The desks, books, walls, &c., of 8 elementary schools have been sprayed with a solution of formalin, the rooms afterwards being disinfected with the fumes of formaldehyde.

64 rooms in 38 houses have been disinfected with the fumes of formalin or sulphur, and the walls of 98 rooms in 38 houses sprayed with a solution of formalin, after the occurrence of deaths from or the removal of cases of Phthisis.

Twelve parcels of infected clothing and 52 sets of infected bedding have been disinfected by steam.

MILK AND CREAM REGULATIONS, 1912 and 1917.

The following is a report made by Mr. Cass, Food and Drugs Inspector, with regard to the above Regulations, for the year 1922 :—

1. MILK AND CREAM not sold as preserved Cream.

	Number of samples examined for the presence of a preservative.	Number in which a preservative was reported to be present.
Milk	70	Nil.
Cream	0	Nil.

2. CREAM sold as preserved Cream :—None taken.

HOUSING.

Number of new houses erected during the year :—

- (a) Total 100
- (b) As part of a municipal housing scheme... .. 79

1. *Unfit dwelling-houses.*

- Inspection—(1) Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts) 89
- (2) Number of dwelling-houses which were inspected and recorded under the Housing (Inspection of District) Regulations, 1910 4
- (3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation 4
- (4) Number of dwelling-houses (exclusive of those referred to under the preceding sub-heading) found not to be in all respects reasonably fit for human habitation 43

2. *Remedy of Defects without Service of formal Notices.*

Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their Officers 19

3. *Action under Statutory Powers.*

A.—Proceedings under Section 28 of the Housing, Town Planning, &c., Act, 1919.

- (1) Number of dwelling-houses in respect of which notices were served requiring repairs... .. 3
- (2) Number of dwelling-houses which were rendered fit :—
 - (a) by owners nil
 - (b) by Local Authority in default of owners nil
- (3) Number of dwelling-houses in respect of which Closing Orders became operative in pursuance of declarations by owners of intention to close... .. 2

B.—Proceedings under Public Health Acts.

- (1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied 6
- (2) Number of dwelling-houses in which defects were remedied :—
 - (a) by owners 6
 - (b) by Local Authority in default of owners nil

C.—Proceedings under Sections 17 and 18 of the Housing, Town Planning, &c., Act, 1909.

- (1) Number of representations made with a view to the making of Closing Orders 2
- (2) Number of dwelling-houses in respect of which Closing Orders were made 2

(3) Number of dwelling-houses in respect of which Closing Orders were determined, the dwelling-houses having been rendered fit... ..	2
(4) Number of dwelling-houses in respect of which Demolition Orders were made	<i>nil</i>
(5) Number of dwelling-houses demolished in pursuance of Demolition Orders	<i>nil</i>

NUISANCES.

Number of Legal Notices served... ..	10
„ Preliminary Notices served	12
„ Letters in lieu of Notices	576
„ Verbal Notices	316
„ Letters sent other than Notices ...	276

SCAVENGING.

This work is carried out by the Cleansing Department, which has its own Superintendent, by whom a separate report is made.

MEAT INSPECTION.

RAILWAY CATTLE DOCKS.

The number of animals which arrived in the Borough during the past year is as follows :—

Beasts	Sheep and Lambs	Pigs	Calves
5030	24351	2698	11

ABATTOIRS.

During the past year the various animals, carcasses, &c., passing through the Public Abattoirs have been carefully examined, both before and after slaughter. The meat retailed in the Borough has been the usual high standard quality of normal times.

NUMBER OF ANIMALS SLAUGHTERED AT THE ABATTOIRS.

	Beasts	Sheep and Lambs	Pigs	Calves	Total.
January	506	2387	302	58	3253
February	424	1447	172	30	2073
March	384	1375	266	30	2055
April	382	1295	226	40	1943
May... ..	387	1761	247	39	2434
June	215	2119	148	14	2496
July... ..	299	2521	182	39	3041
August... ..	396	3243	197	60	3896
September	283	1769	175	48	2275
October	661	3490	462	133	4746
November... ..	449	2070	329	66	2914
December... ..	408	1751	650	34	2843
<hr/>					
Total, 1922 ...	4794	25228	3356	591	33969
<hr/>					
Total, 1921 ...	4450	23660	3446	527	32083
<hr/>					

During the year 84 carcasses required special examination, of which number 57 were affected with Tuberculosis in varying degrees. Those consisted of 34 cows, 6 bullocks, 4 bulls, 3

heifers, and 10 pigs. Owing to the extent of the disease in 8 cows, 2 bullocks, 2 bulls, 2 heifers, and 5 pigs, it was found necessary to condemn and destroy the entire carcasses.

It was also found necessary to condemn and destroy (for causes other than Tuberculosis) the entire carcasses of 18 sheep, 4 pigs, and 6 calves, this bringing the number of entire carcasses destroyed to 47.

The following organs were also destroyed, viz. :—Beasts : 48 lungs, 20 hearts, 44 livers, 24 bellies, 12 skirts, and 6 udders. Sheep : 24 heads, 12 lungs, 20 hearts, and 43 livers. Pigs : 12 lungs, 6 hearts, and 12 livers.

Two persons were prosecuted during the year for exposing diseased meat for sale. In each case a fine of £20 was imposed.

The total amount destroyed during the year was 12,205-lbs.

On two occasions the Meat Inspector has been called to inspect carcasses slaughtered in emergency upon farms in the Borough. In one case slaughter had been performed sufficiently early to enable the carcass being passed as fit for food. In the other case the carcass and organs were surrendered and destroyed.

During the year the butchers' shops, fish shops, &c., have been constantly kept under supervision, regular and frequent visits having been paid to the same; the meat, fish, &c., coming under observation having, with several exceptions, been satisfactory.

F A R M S.

There are 63 registered farms within the Borough, this number being the same as last year. 90 visits have been made during the year, and the farm buildings on the whole are in a good sanitary condition.

OFFENSIVE TRADES.

95 visits have been paid to the various offensive trade establishments in the Borough. The offensive trades as a whole are carried on with a minimum of nuisance.

BAKEHOUSES.

The bakehouses have been kept under observation, and have been carried on in a satisfactory manner, the total number in the Borough now being

- 1 Factory Bakehouse.
- 2 Wholesale Bakehouses.
- 2 Cellar Bakehouses.
- 41 Special Bakehouses.
- 40 Scullery Bakehouses.
- 5 Kitchen Bakehouses.

ICE CREAM AND MILK SHOPS.

These have been regularly visited during the year, and no complaints have to be recorded.

KNACKER'S YARD.

76 visits have been paid to the knacker's yard, and there have been no complaints.

SUMMARY OF VISITS OF THE HEALTH VISITORS.

- 949 visits to houses where births have been registered.
- 1874 re-visits to children under one year of age.
- 4461 „ „ over one and under five years.
- 137 visits to expectant mothers.
- 174 re-visits „ „
- 78 visits to houses in which deaths in infants under one year of age have occurred.
- 2693 re-visits to babies during the summer diarrhœa season.
- 236 visits to Mothers' Welcome.
- 232 visits to homes in which cases of suspected Measles, Whooping Cough, Ringworm, &c., existed.
- 78 visits to houses in which cases of Tuberculosis have been notified.
- 1808 re-visits „ „ „ „ „ „ „
- 183 visits and re-visits to houses in which cases of Chicken-pox have been notified.
- 17 visits to cases of Ophthalmia Neonatorum.
- 23 re-visits „ „ „ „
- 5 visits to cases of Puerperal Fever.
- 3 re-visits „ „ „
- 55 visits to Midwives.
- 439 visits re applications for free milk.
- 30 „ „ maternity grant.
- 39 „ to houses for disinfection.
- 106 miscellaneous visits.

SUMMARY OF VISITS OF THE SANITARY INSPECTORS.

Infectious and contagious diseases	518
Common lodging-houses	586
Houses let in lodgings	670
Factories and Workshops	389
Canal boats (wharf)	12
Public Buildings	11
Re Premises to cleanse and repair	661
,, Houses damp	5
,, ,, overcrowded	4
,, ,, insufficient water supply	70
,, ,, defective water pipes and fittings	49
,, Flooded cellars	8
,, Defective rain-water spouts and eaves-gutters.	553
,, Drains choked, dilapidated, and untrapped ...	994
,, Testing drains and fittings	8
,, Defective waste pipes	59
,, Water closets	739
,, Urinals	4
,, Privy middens and ashpits	892
,, Manure	10
,, Accumulation of refuse	105
,, Animals kept as to be a nuisance	42
,, Defective and foul yard pavements	7
,, Defective chimney flues	15
,, Premises infested by rats	30
,, Effluvium nuisance	12
,, Inspections under the Rent, &c., Acts	13
,, ,, ,, Housing, Town Planning, &c., Acts	4
,, ,, ,, Poisons & Pharmacy Acts	4
,, ,, ,, Petroleum Acts (petrol stores, &c.)	211
,, ,, ,, Shop Acts	18
,, ,, ,, Explosives Acts	65
,, Work in progress	176
,, Appointments and nuisances of a general character	763

ANNUAL REPORT OF THE BOROUGH ANALYST.

ANALYTICAL LABORATORIES,

54, ARCADE CHAMBERS, ST. MARY'S GATE,

MANCHESTER,

March 20th, 1923.

*To the Chairman and Members of the Health Committee
of the Corporation of Bury.*

LADY AND GENTLEMEN,

I herewith beg to report that during the year ended December 31st, 1922, your Inspector, Mr. H. C. Cass, handed me 71 samples of milk. These samples were formally taken and submitted to careful analysis. With one exception all were found to be in accordance with the legal standard, and all were clean and free from preservatives.

The exception was sample No. 462, which was found to be deficient in fat to the extent of 9.34 per cent. The vendor was prosecuted, convicted, and fined £15 and fees. This vendor has been previously convicted for adding water to his milk.

The general quality of the samples submitted may be described as fairly good.

I remain,

Yours faithfully,

(Signed) THOS. J. HUTCHINSON,

Borough Analyst.

TABLE I.—TABLE OF NUISANCES.

Type of Nuisance dealt with.	1918.					1919.					1920.					1921					1922.				
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
Damp, due to being built against an embankment.	3	3	3			1	1	1			1	1	1			1	1	1			1	1	1		
Damp walls, built without dampproof course or defective.	6	6	6			10	10	10			14	14	14			24	24	24			11	11	11		
Damp walls, without cavities.	7	7	7			15	15	15			17	17	17			6	6	6			14	14	14		
Damp, due to defective roofs.	18	20	21	3		10	10	9	1		17	18	22	1		49	54	28	5		46	48	41	6	
Damp, due to defective eaves gutters and spouts	26	27	24			35	37	34	2		31	31	59			111	130	129	2		96	102	100		
Premises to cleanse.	39	59	61		1	50	57	55			48	2	2			2	2	2			1	1	1		
" to repair	1	1	1			2	2	2			2	2	2			2	2	2			1	1	1		
" overcrowded						2	2	2			2	2	2			17	19	19			21	24	28		
Defective gas pipes or fittings in houses		9	9			7	7	7			6	8	8			13	13	13			18	16	12		
" water pipes						7	6	6			10	10	10			11	11	11			16	8	7		
Insufficient water supplies						26	27	18			31	6	6			12	13	14			33	33	35		
Defective chimney flues in houses	4	4	4			5	5	5			20	22	22			20	40	43			30	44	43		
Animals kept as to be a nuisance	27	28	30	1	1	5	6	6			55	3	3			59	6	6			62	14	20		
Accumulation of refuse	13	13	13			10	11	11			3	7	23			5	14	67			11	16	79		
Defective yard surface	7	7	15	2		4	8	48			87	92	86			61	66	71			17	81	94		
Foul	19	19	17			51	6	6			24	25	29			10	10	7			21	61	45		
Dangerous places, cellar areas, fences, &c.	62	13	14	5		8	9	48			3	3	3			1	2	2			6	6	3		
Choked street grids.	13	18	78			50	57	64			7	9	9			14	14	6			14	14	20		
" cellar drains	88	93	146	5		32	48	41	3		54	83	107			44	62	72			34	42	59		
" passage drains	57	138	172	7		36	38	47	2		49	56	56			43	52	62			37	41	41		
" yard drains	56	49	64	2		20	23	26			46	58	49			29	31	30			52	61	45		
" water closet drains	44	36	4	1		21	21	20	3		24	25	29			35	55	55			21	21	24		
" waste water closet drains.	17	21	27	1		8	9	4	3		5	5	5			10	10	7			6	6	3		
Defective drains	2	2	1	1							1	1	1			1	2	2			1	1	1		
Insufficient drains	2	2	2			23	27	25			11	11	11			2	21	20			6	17	10		
Drains inside premises.	3	3	3			47	55	49			64	80	84			20	21	20			24	30	29		
Insanitary traps connected to drains	20	22	21	1		37	47	56			29	42	48			77	91	93			127	147	132		
Defective waste pipes	39	43	40	3		37	47	56			31	39	41			39	65	72			79	85	112		
" fittings, sinks and basins	34	34	36			8	9	12			5	5	6			6	6	4			4	4	5		
" rainwater spouts						21	27	25			31	39	41			20	25	25			30	32	39		
" eaves gutters.						9	9	9			29	37	42			57	76	132			47	61	131		
Premises without spouts or gutters						10	16	24	10		18	21	31			41	42	59			11	18	20		
Premises with an insufficient closet accommodation						11	15	19	1		10	13	50			31	41	66			28	29	40		
Closets structurally defective						19	25	53			14	16	31			4	9	20			51	59	143		
Closets dirty and foul approaches						8	9	18			11	13	11			2	2	17			3	7	12		
Water closet cisterns out of order						1	1	9			2	2	11			1	14	4			5	5	4		
" water pipe burst						4	4	9			2	2	3			2	2	4			1	1	3		
" without a water supply						12	18	15			2	2	16			11	14	17			3	5	4		
" defective pedestal.						2	2	2			5	6	5			2	2	4			1	1	3		
" defective flush pipes.						3	3	4			6	6	7			2	2	3			4	4	4		
" defective soil pipes						1	1	1			6	6	10			2	2	2			1	2	2		
" defective vent pipes						38	39	61	2		65	69	73			59	59	65			45	49	48		
" insanitary troughs											39	46	48			38	102	50							
" insufficiently lighted and ventilated											16	42	48			6	13	16							
Waste water closet tipplers out of order						35	40	50			39	46	48			38	102	50							
Insanitary Water Closets.						16	40	50			16	42	48			6	13	16							
Offensive privy closets and middens	23	51	67	1		29	71	78			29	84	134			29	102	121			29				
Defective pail closets	7	11	17				40	50				42	48			11	15	29			11	15	29		
Defective ashbins							8	8			38	62	68			40	63	65			40	63	65		
Insufficient ashpits						21	25	52			39	46	85			11	15	21			11	15	21		
Ashpits without proper doors	28	32	176			20	33	72			27	33	63			33	37	113			33	37	113		
Asphalt doors without proper fastenings	44	51	21	1		44	51	21			27	33	64			27	33	64			27	33	64		
Ashpits to cleanse	13	26	50			13	26	50			13	26	50			13	26	50			13	26	50		

TABLE II.

Table showing the Comparative Numbers of Sanitary Conveniences in the Borough in the Years
1902, 1915, 1916, 1917, 1918, 1919, 1920, 1921 and 1922.

	1902	1915	1916	1917	1918	1919	1920	1921	1922
Number of privies	5458	2875	2769	2727	2716	2673	2670	2657	2582
Number of ashpits in connection with privies	2867	1606	1575	1564	1563	1548	1515	1502	1472
Number of pails	795	378	347	346	344	328	322	320	308
Number of dry ashpits in connection with pails	397	234	228	228	227	224	218	218	216
Number of mill tanks... ..	44	16	15	15	12	11	10	4	4
Number of fresh water closets... ..	1909	5922	6104	6176	6208	6287	6411	6499	6721
Number of waste water closets	1569	2687	2686	2684	2680	2676	2668	2664	2661
Number of dry ashpits in connection with water closets	1042	2291	2314	2324	2324	2336	2367	2372	2402
Number of bins in connection with water closets	374	1647	1725	1753	1753	1782	1795	1814	1826

TABLE III.—Nuisances Abated and Sanitary Improvements Effected in connection with Dwelling-houses and other Premises.

	1916	1917	1918	1919	1920	1921	1922
Privy closets converted to fresh-water closets	106	42	11	43	70	23	75
Pail closets converted to fresh-water closets	31	1	2	16	6	2	12
Additional fresh-water closets provided—Outside... ..	15	12	6	4	5	8	24
„ „ „ „ „ Inside	30	17	13	16	35	22	18
Waste-water closets replaced by fresh-water closets	1	2	4	4	8	4	3
Trough „ „ „ „ „ „	2	—	3	5	—	—	—
Total number of fresh-water closets fixed in connection with old property	185	74	39	88	124	59	132
Privy middens altered and converted to dry ashpits ...	33	11	0	12	28	4	30
„ „ „ „ „ ashbins ...	31	11	1	15	6	9	4
Dry Ashpits „ „ „ „ „ ashbins ...	6	0	1	3	3	5	1
Number of ashbins provided (galvanised iron) fixed ...	21	8	0	4	3	10	2
„ „ „ „ „ „ portable	57	20	0	25	10	14	10
Number of cesspools cleared out	1	0	3	1	1	—	—
Number of dry ashpits provided	23	10	0	12	31	5	80

TABLE IV.

THE BURY AND DISTRICT JOINT WATER BOARD.

RAINFALL AT WORKSHOP YARD, PARSONS LANE.

	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922
January..	1·82	2·09	3·48	5·88	6·72	3·34	3·45	3·29	3·56	2·13	5·39	2·22	4·26	2·86	5·65	1·59	4·87	4·95	2·98	6·22	3·47	3·63	3·79	5·35	5·02	7·37	4·76
February	2·19	2·67	3·84	1·66	3·80	1·84	1·94	3·87	3·86	2·43	3·71	2·74	3·87	2·67	4·27	5·02	1·71	1·73	2·64	5·04	4·75	1·53	5·87	1·19	4·75	0·50	5·26
March ..	5·37	4·14	2·14	2·73	0·68	2·28	2·48	4·72	2·57	3·44	3·51	3·82	3·37	3·39	0·88	2·11	6·46	5·02	5·93	1·89	2·37	2·99	2·13	7·06	3·74	3·64	3·30
April	1·61	2·91	2·15	3·90	2·54	2·57	2·37	2·21	2·64	3·20	2·27	1·85	2·50	3·63	2·71	2·93	1·00	4·96	1·96	1·83	3·59	1·88	1·04	2·59	5·01	1·70	2·53
May	0·41	2·07	4·19	3·18	1·79	0·88	3·00	4·50	2·56	0·52	3·60	4·38	3·16	2·35	3·30	2·46	3·13	3·39	2·55	1·53	2·78	1·58	3·13	2·11	7·22	2·67	2·03
June	2·54	4·74	2·93	1·69	3·57	1·95	1·28	1·66	1·29	3·53	1·97	7·62	2·02	2·69	3·31	3·04	5·95	2·58	1·56	2·75	3·13	2·40	1·87	1·67	3·16	0·44	2·68
July	2·64	1·76	0·56	2·07	2·73	1·56	2·88	3·81	1·86	2·36	1·96	2·81	5·02	6·83	4·14	0·22	5·34	1·17	4·89	4·51	2·02	2·31	3·98	2·07	8·17	1·89	4·91
August ..	2·85	3·97	7·50	1·42	6·76	2·49	3·16	5·36	4·85	5·10	4·75	4·46	3·45	3·24	6·05	2·47	7·58	2·98	3·46	5·62	3·30	6·64	3·64	3·87	2·73	6·07	5·04
September	9·43	4·30	1·37	6·19	1·53	1·70	1·80	5·42	1·45	2·70	1·57	1·20	3·93	2·65	0·21	4·03	1·76	2·06	4·77	0·61	2·78	2·48	12·53	1·88	3·02	1·47	4·57
October...	4·39	2·30	4·37	3·19	6·19	2·82	4·67	9·24	2·38	3·54	7·08	4·09	1·83	5·68	3·58	3·74	5·50	2·01	2·74	1·95	8·52	9·17	4·39	2·76	1·66	2·83	0·62
November	1·49	5·14	3·26	1·48	3·73	6·01	2·39	3·90	4·20	4·49	3·59	3·56	3·03	1·52	5·43	4·50	3·57	5·05	5·90	2·31	3·10	5·35	2·87	3·74	1·97	3·17	3·83
December	5·97	5·43	4·33	3·21	5·50	3·18	3·48	2·06	3·08	0·69	5·01	4·24	3·12	8·01	4·33	7·25	5·34	2·90	6·49	8·36	3·34	2·41	10·10	7·05	3·86	7·10	5·56
TOTAL	40·71	41·52	40·12	36·60	45·54	30·62	32·90	50·04	34·30	34·13	44·41	42·99	39·56	45·52	43·86	39·36	52·21	38·80	45·87	42·62	43·15	42·37	55·34	41·34	50·31	38·85	45·09

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